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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/804,900	03/19/2004	J. Kenneth Burkus	4002-3501/PC361.18	8205
52196 7590 01/22/2007 KRIEG DEVAULT LLP			EXAMINER	
ONE INDIANA SQUARE, SUITE 2800 INDIANAPOLIS, IN 46204-2709			CUMBERLEDGE, JERRY L	
			ART UNIT	PAPER NUMBER
			3733	
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SHORTENED STATUTORY PERIOD OF RESPONSE		MAIL DATE	DELIVERY MODE	
3 MONTHS		01/22/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
	10/804,900	BURKUS ET AL.				
Office Action Summary	Examiner	Art Unit				
	Jerry Cumberledge	3733				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS,						
WHICHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  If NO period for reply is specified above, the maximum statutory period of Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this communication. (D) (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31 O	ctober 2006.					
a) ☐ This action is <b>FINAL</b> . 2b) ☑ This action is non-final.						
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims	·					
• 4)⊠ Claim(s) <u>20-60</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>20-60</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers		•				
9) The specification is objected to by the Examine	r					
10)⊠ The drawing(s) filed on <u>19 March 2004</u> is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail D					
2)  Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)  Information Disclosure Statement(s) (PTO/SB/08)	5) Notice of Informal I					
Paper No(s)/Mail Date	6) 🔲 Other:					

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### **DETAILED ACTION**

## Response to Arguments

Applicant's arguments (see page 14, paragraph 4 and page 15, paragraph 1), filed 10/31/2006, with respect to the rejection(s) of claim(s) 20-60 under 35 U.S.C. §102 have been fully considered and are persuasive. Therefore, the rejection has been withdrawn. However, upon further consideration, a new ground(s) of rejection is made in view of Michelson (US Pat. 5,505,732) in view of Paul et al. (US Pat. 6,258,125 B1).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 20-36, 39-41, 43-48 and 50-52 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michelson (US Pat. 5,505,732) in view of Paul et al. (US Pat. 6,258,125 B1).

Michelson discloses a surgical instrument assembly for distracting a spinal disc space, comprising: a first distractor (Fig. 7F, ref. 100, left) including: a first shaft (Fig. 7F, shaft near ref. numeral 100) extending between a proximal end (Fig. 7F, end near ref. 110) and a distal end (Fig. 7F, end near ref. 102); a first distractor tip (Fig. 7F, ref. 102, left) extending from the distal end of said first shaft (Fig. 7F), said first distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each

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other in Fig. 3D) defining a first distraction height; a second distractor (Fig. 7F, ref. 100, right) including: a second shaft (Fig. 7F, shaft near ref. numeral 100, right) extending between a proximal end (Fig. 7F, end near ref. 110) and a distal end (Fig. 7F, end near ref. 102); a second distractor tip (Fig. 7F, ref. 102, right) extending from the distal end of said second shaft (Fig. 7F), said second distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each other in Fig. 3D) defining a second distraction height substantially equal to said first distraction height, a guide sleeve (Fig. 7F, ref. 340) defining a working channel (Fig. 7F, ref. 348) extending between a proximal end (Fig. 7F, end towards ref. 352) and a distal end (Fig. 7F, end towards ref. 344), wherein said first and second distractors are received in said working channel of said guide sleeve (Fig. 7F); and a distractor driver cap (Fig. 7F, ref. 420) coupled to the proximal end of said first and second distractors and said guide sleeve (Fig. 7F), said distractor driver cap having a side opening (Fig. 7F, the opening immediately distal from near where ref. 352 points) wherein said distractor driver cap is side-loaded onto said first and second distractors and said guide sleeve. A distal end of said quide sleeve includes a pair of opposite flanges (Fig. 7F, ref. 342) extending distally therefrom. The working channel includes a first working channel portion (Fig. 7F, portion of ref. 348 surrounding first distractor) for receiving said first distractor and a second working channel portion (Fig. 7F, portion of ref. 348 surrounding second distractor) for receiving said second distractor. The first working channel portion and said second working channel portion form a figure eight shape (Fig. 7F, since there are two circles formed by the working channel portions that lie next to each other, forming a

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figure eight shape). The guide sleeve includes a sleeve cap (Fig. 7F, proximal end portion of guide sleeve) at said proximal end of said guide sleeve, said sleeve cap including a proximal end ring (Fig. 7F, ring formed around distractors, near ref. 352) engageable to said distractor driver cap (Fig. 7F). The first distractor includes a first flange (Fig. 7F, ref. 110, left) on its proximal end defining a lip (Fig. 7F, rim of ref. 110, left) therearound and said second distractor includes a second flange (Fig. 7F, ref. 110, right) on its proximal end defining a lip (Fig. 7F, rim of ref. 110, right) therearound, said driver cap including a distractor slot slidably receiving said first and second flanges therein. The distractor driver cap includes a guide sleeve slot slidably receiving said proximal end ring (Fig. 7E, slot immediately surrounding bores). The first distractor includes a first flange (Fig. 7F, ref. 110, left) on its proximal end defining a lip (Fig. 7F, rim of ref. 110, left) therearound and said second distractor includes a second flange (Fig. 7F, ref. 110, right) on its proximal end defining a lip (Fig. 7F, rim of ref. 110, right) therearound, said driver cap including a distractor slot (Fig. 7F, refs. 354) slidably receiving said first and second flanges therein. The first flange includes a proximal face (Fig. 7F, face just below ref. 110, left) having a hole (Fig. 7F, u-shaped hole just below ref.110, left) therein and said second flange includes a proximal face (Fig. 7F, face just below ref. 110, right) having a hole (Fig. 7F, u-shaped hole just below ref.110, right) therein, said distractor driver cap including a spring-biased plunger (column 20, lines 55-61) positionable in a corresponding one of said holes when said distractor driver cap is properly positioned thereon. The first distractor includes a projection (Fig. 3D, ref. 128) extending from a medial side of said first shaft; said second distractor includes a

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notch (Fig. 3F, notch in ref.128) formed in a medial side of said second shaft, wherein when said first and second distractors are positioned in said guide sleeve said projection is received in said notch to prevent relative movement between said first and second distractors. The projection is cylindrically shaped, since it is a flattened cyclinder (Fig. 3D, ref. 128).

Michelson discloses a surgical instrument assembly for distracting a spinal disc space, comprising: a first distractor (Fig. 7F, ref. 100, left) including: a first shaft (Fig. 7F, shaft near ref. numeral 100, left) extending between a proximal end (Fig. 7F, end near ref. 110left) and a distal end (Fig. 7F, end near ref. 102); a first distractor tip (Fig. 7F, ref. 102, left) extending from the distal end of said first shaft (Fig. 7F), said first distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each other in Fig. 3D) defining a first distraction height; a second distractor (Fig. 7F, ref. 100, right) positionable along said first distractor including: a second shaft (Fig. 7F, shaft near ref. numeral 100, right) extending between a proximal end (Fig. 7F, end near ref. 110, right) and a distal end (Fig. 7F, end near ref. 102, right); a second distractor tip (Fig. 7F, ref. 102, right) extending from the distal end of said second shaft (Fig. 7F), said second distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each other in Fig. 3D) defining a second distraction height; and a guide sleeve (Fig. 7F, ref. 340) defining a working channel (Fig. 7F, ref. 348) extending between a proximal end (Fig. 7F, end towards ref. 352) and a distal end (Fig. 7F, end towards ref. 344), wherein said first and second distractors are positionable in said working channel of said guide sleeve. The assembly further

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comprises a distractor driver cap (Fig. 7F, ref. 420) configured for side-loading on said at least one of said first and second distractors and said guide sleeve. The distal end surface (Fig. 3D, surface at tip of the component) of said at least one of said first and second distractors is linear (since one could draw a straight line across from lower left to upper right) and orthogonal to a central longitudinal axis of said at least one distractor (Fig. 3D, since the linear surface would be at a right angle to a longitudinal axis of the distractor). The first and second surfaces of said at least one distractor tip each include a plurality of teeth formed therein (Fig. 3D, ref. 124). At least one of said first and second distractors said first surface includes a proximal portion (Fig. 3D, portion of surface closer to ref. 128) and a distal portion (Fig. 3D, portion closest to tip of component, farthest away from ref. 128) and said second surface includes a proximal portion (Fig. 3D, portion of surface closer to ref. 128) and a distal portion (Fig. 3D, portion closest to tip of component, farthest away from ref. 128), said proximal portions being generally parallel with one another (Fig. 3D) and said distal portions tapering toward one another from said proximal portions toward said distal end surface (Fig. 3D).

Michelson discloses a surgical instrument assembly for distracting a spinal disc space, comprising: a first distractor (Fig. 7F, ref. 100, left) including: a first shaft (Fig. 7F, shaft near ref. numeral 100) extending between a proximal end (Fig. 7F, end near ref. 110) and a distal end (Fig. 7F, end near ref. 102); a first distractor tip (Fig. 7F, ref. 102, left) extending from the distal end of said first shaft (Fig. 7F), said first distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each other in Fig. 3D) defining a first distraction height; a second distractor (Fig. 7F, ref. 100,

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right) positionable along said first distractor including: a second shaft (Fig. 7F, ref. 102, right) extending between a proximal end (Fig. 7F, end near ref. 110, right) and a distal end (Fg. 7F, end near ref. 102); a second distractor tip (Fig. 7F, ref. 102, right) extending fxom the distal end of said second shaft (Fig. 7F), said second distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each other in Fig. 3D) defining a second distraction height, and a guide sleeve (Fig. 7F, ref. 340) defining a working channel (Fig. 7F, ref. 348) extending between a proximal end (Fig. 7F, end towards ref. 352) and a distal end (Fig. 7F, end towards ref. 344), wherein said first and second distractors are positionable in said working channel of said guide sleeve. The assembly further comprises a distractor driver cap (Fig. 7F, ref. 420) configured for side-loading on said at least one of said first and second distractors and said guide sleeve. The distal end surface (Fig. 3D, surface at tip of the component) of said at least one of said first and second distractors is linear (since one could draw a straight line across from lower left to upper right) and orthogonal to a central longitudinal axis of said at least one distractor (Fig. 3D, since the linear surface would be at a right angle to a longitudinal axis of the distractor). The first and second surfaces of said at least one distractor tip each include a plurality of teeth formed therein (Fig. 3D, ref. 124). At least one of said first and second dissectors said first surface includes a proximal portion (Fig. 3D, portion of surface closer to ref. 128) and a distal portion (Fig. 3D, portion closest to tip of component, farthest away from ref. 128) and said second surface includes a proximal portion (Fig. 3D, portion of surface closer to ref. 128) and a distal portion (Fig. 3D, portion closest to tip of component, farthest away from ref. 128),

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said proximal portions being generally parallel with one another (Fig. 3D) and said distal portions tapering toward one another from said proximal portions toward said distal end surface (Fig. 3D).

Michelson discloses a surgical instrument assembly for distracting a spinal disc space, comprising: a first distractor (Fig. 7F, ref. 100, left) including: a first shaft (Fig. 7F, shaft near ref. numeral 100) extending between a proximal end (Fig. 7F, end near ref. 110) and a distal end (Fig. 7F, end near ref. 102); a first distractor tip (Fig. 7F, ref. 102, left) extending from the distal end of said first shaft, said first distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each other in Fig. 3D) defining a first distraction height; a second distractor (Fig. 7F, ref. 100, right) positionable along said first distractor including: a second shaft (Fig. 7F, shaft near ref. numeral 100, right) extending between a proximal end (Fig. 7F, end near ref. 110, right) and a distal end (Fig. 7F, end near ref. 102, right); a second distractor tip (Fig. 7F, ref. 102, right) extending from the distal end of said second shaft, said second distractor tip including opposite first and second surfaces (Fig. 3D, surfaces with teeth opposite each other in Fig. 3D) defining a second distraction height substantially equal to said first distraction height; and a guide sleeve (Fig. 7F, ref. 340) defining a working channel (Fig. 7F, ref. 348) extending between a proximal end (Fig. 7F, end towards ref. 352) and a distal end (Fig. 7F, end towards ref. 344), wherein said first and second distractors are positionable in said working channel of said guide sleeve. The assembly further comprises a distractor driver cap (Fig. 7F, ref. 420) configured for side-loading on said at least one of said first and second distractors and said guide sleeve. The distal end

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surface (Fig. 3D, surface at tip of the component) of said at least one of said first and second distractors is linear (since one could draw a straight line across from lower left to upper right) and orthogonal to a central longitudinal axis of said at least one distractor (Fig. 3D, since the linear surface would be at a right angle to a longitudinal axis of the distractor). The first and second surfaces of said at least one distractor tip each include a plurality of teeth (Fig. 3D, ref. 124) formed therein. The at least one of said first and second distractors said first surface includes a proximal portion (Fig. 3D, portion of surface closer to ref. 128) and a distal portion (Fig. 3D, portion closest to tip of component, farthest away from ref. 128) and said second surface includes a proximal portion (Fig. 3D, portion of surface closer to ref. 128) and a distal portion (Fig. 3D, portion closest to tip of component, farthest away from ref. 128) and a distal portion (Fig. 3D, portion closest to tip of component, farthest away from ref. 128), said proximal portions being generally parallel with one another (Fig. 3D) and said distal portions tapering toward one another from said proximal portions toward said distal end surface (Fig. 3D). The first and second distraction heights are equal (Fig. 7F, ref. 102) (Fig. 3D).

Michelson does not disclose at least one of said first and second distractor tips includes a transition surface extending between a distal end surface and said first surface of said at least one distractor tip and a transition surface extending between said distal end surface and said second surface of said at least one distractor tip, said transition surfaces each having a curvature shaped to generally correspond to a curvature of an inner portion of a cortical rim of vertebral endplates in a sagittal plane.

Paul et al. disclose a distractor tip (since it distracts, column 4, lines 18-20) (Fig. 2, below) including a transition surface extending between a distal end and said first

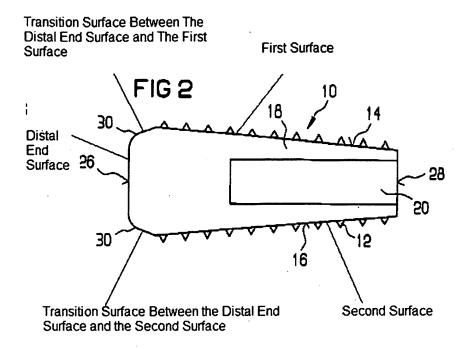
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surface of said at least one distractor and a transition surface extending between said distal end surface and said second surface of said at least one distractor tip, said transition surfaces each having a curvature (column 4, lines 16-20) shaped to generally correspond to a curvature of an inner portion of a cortical rim of vertebral endplates in a sagittal plane, in order to facilitate insertion of the device (column 4, lines 16-20).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have constructed the distractor tips of Michelson with each having a transition surface extending between a distal end surface and said first surface of said at least one distractor and a transition surface extending between said distal end surface and said second surface of said at least one distractor tip, said surfaces each having a curvature shaped to generally correspond to a curvature of an inner portion of a cortical rim of vertebral endplates in a sagittal plane as taught by Paul et al., in order to facilitate insertion of the device (column 4, lines 16-20).

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With regards to claim 24, Michelson in view of Paul et al. disclose the claimed invention except for the first distractor tip being integrally formed with said first shaft and said second distractor tip being integrally formed with said second shaft It would have been obvious to one having ordinary skill in the art at the time the invention was made to have constructed the distractor tips as being intergrally formed with their respective shafts, since it has been held that forming in one piece an article which has formerly been formed in two pieces and put together involves only routine skill in the art. Howard v. Detroit Stove Works, 150 U.S. 164 (1893).

With regards to claims 21-25, Michelson does not disclose the second distractor including a recessed area extending along a medial side thereof. The recessed area is a concave surface. The recessed area is configured to permit rotation of a surgical

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instrument positioned adjacent thereto. The first distractor includes a convex surface along a medial side thereof, and said second distractor includes a convex surface along a medial side thereof.

Paul et al. disclose a distractor (since it distracts, column 4, lines 18-20) (Fig. 2, ref. 10) with a recessed area (Fig. 2, ref. 20) extending along a medial side (Fig. 2, ref. 18) thereof. The distractor includes a convex surface (Fig. 2, ref. 18) along a medial side thereof. These surfaces facilitate the insertion of a surgical instrument (column 3, lines 49-50).

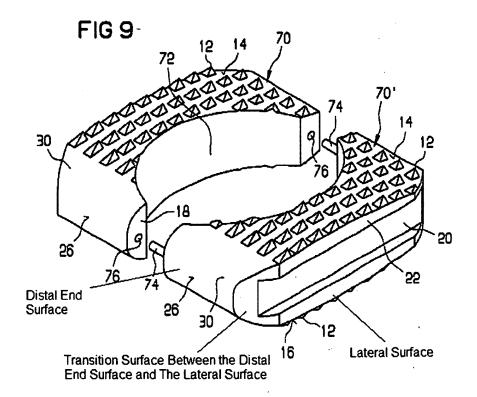
It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have constructed the distractors of Michelson with the convex surfaces and the recessed areas along a medial side as taught by Paul et al., in order to facilitate the insertion of a surgical instrument (column 3, lines 49-50).

With regards to claims 36 and 56, Michelson discloses the claimed invention except for each of said first and second distractor tips including: a distal end surface; a lateral surface; a transition surface extending between said distal end surface and said lateral surface, said transition surface having a second curvature (since it is curved, Fig. 9) generally corresponding to a curvature of the inner portion of the cortical rim of vertebral endplates in an axial plane.

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Paul et al. disclose a distractor (Fig. 9, ref. 70) including a transition surface (Fig. 9, below) between the distal end and the lateral surface, which facilitates insertion of the device (column 4, lines 16-20).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have constructed the distractor of Michelson with the transition surface between the distal end and the lateral surface, in order to facilitate insertion of the device (column 4, lines 16-20).



Claims 37, 42 and 49 and are rejected under 35 U.S.C. 103(a) as being unpatentable over Michelson (US Pat. 5,505,732) in view of Paul et al. (US Pat. 6,258,125 B1) in view of Henry et al. (US Pat. 5,766,252).

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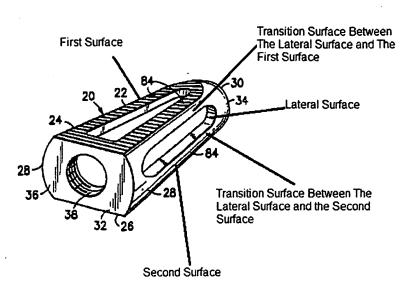
Michelson in view of Paul et al. disclose the claimed invention except for each of said first and second distractor tips further includes a transition surface extending between said lateral surface and said first surface and a transition surface extending between said lateral surface and said second surface, said transition surfaces each having a third curvature shaped to generally correspond in shape to a curvature of the inner portion of the cortical rim of vertebral endplates in a coronal plane.

Henry et al. disclose a transition surface extending between a lateral surface and said first surface (see Fig. 1, below), and a transition surface extending between said lateral surface and said second surface, said transition surfaces each having a third curvature (column 3, lines 42-49) shaped to generally correspond in shape to a curvature of the inner portion of the cortical rim of vertebral endplates in a coronal plane, the transition surface facilitating appropriate introduction and placement of the device during implant, while reducing the risk of injury to surrounding tissue (column 1, lines 39-42).

It would have been obvious to have constructed the distractor tips of Michelson with the transition surface of Henry et al., in order to facilitate appropriate introduction and placement of the device, while reducing the risk of injury to surrounding tissue (column 1, lines 39-42).

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Figure 1



Claims 53, 54, 58-60 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michelson (US Pat. 5,505,732) in view of Henry et al. (US Pat. 5,766,252).

Michelson discloses the claimed invention except for each of said first and second distractor tips further including a transition surface extending between said lateral surface and said first surface and a transition surface extending between said lateral surface and said second surface, said transition surfaces each having a third curvature shaped to generally correspond in shape to a curvature of the inner portion of the cortical rim of vertebral endplates in a coronal plane.

Henry et al. discloses a transition surface (Fig. 1, above) extending between a lateral surface and said first surface, and a transition surface extending between said

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lateral surface and said second surface, said transition surfaces each having a third curvature (column 3, lines 42-49) shaped to generally correspond in shape to a curvature of the inner portion of the cortical rim of vertebral endplates in a coronal plane, the transition surfaces facilitating appropriate introduction and placement of the device during implant, while reducing the risk of injury to surrounding tissue (column 1, lines 39-42).

It would have been obvious to have constructed the distractor tips of Michelson with the transition surfaces of Henry et al., in order to facilitate appropriate introduction and placement of the device, while reducing the risk of injury to surrounding tissue (column 1, lines 39-42).

Claims 55, 56 and 57 are rejected under 35 U.S.C. 103(a) as being unpatentable over Michelson (US Pat. 5,505,732) in view of Henry et al. (US Pat. 5,766,252) further in view of Paul et al. (US Pat. 6,258,125 B1).

Michelson and Henry et al. disclose the claimed invention except for at least one of said first and second distractor tips including a transition surface extending between a distal end surface and said first surface of said at least one distractor tip and a transition surface extending between said distal end surface and said second surface of said at least one distractor tip, said transition surfaces each having a curvature shaped to generally correspond to a curvature of an inner portion of a cortical rim of vertebral endplates in a sagittal plane.

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Paul et al. disclose a distractor tip (since it distracts, column 4, lines 18-20) (Fig. 2. above) including a transition surface extending between a distal end surface and said first surface of said at least one distractor and a transition surface extending between said distal end surface and said second surface of said at least one distractor tip, said transition surfaces each having a curvature (column 4, lines 16-20) shaped to generally correspond to a curvature of an inner portion of a cortical rim of vertebral endplates in a sagittal plane, in order to facilitate insertion of the device (column 4, lines 16-20).

It would have been obvious to a person having ordinary skill in the art at the time the invention was made to have constructed the distractor tips of Michelson with each having a transition surface extending between a distal end surface and said surface of said at least one distractor and a transition surface extending between said distal end surface and said second surface of said at least one distractor tip, said transition surfaces each having a curvature shaped to generally correspond to a curvature of an inner portion of a cortical rim of vertebral endplates in a sagittal plane, in order to facilitate insertion of the device (column 4, lines 16-20).

### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Please see attached PTO-892.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jerry Cumberledge whose telephone number is (571)

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272-2289. The examiner can normally be reached on Monday - Friday, 8:30 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on (571) 272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

**JLC** 

ÉDUÁRDO/C. ROBERT SUPERVISORY PATENT EXAMINER